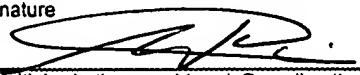


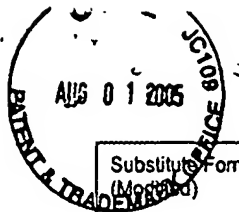
Substitute Form PTO-1449 (Modified) AUG 31 2003 37 CFR § 1.102 (b) PATENT & TRADEMARK OFFICE	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16459-013001	Application No. 10/735,498
	Information Disclosure Statement by Applicant (Use several sheets if necessary)		
	Applicant Alexei A. Erchak		Filing Date December 12, 2003
		Group Art Unit 2811	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
WSL	AA	5,132,751	July 21, 1992	Shibata, et al.			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
WSL	AQ	A. Köck et al., "Novel surface emitting GaAs/AlGaAs laser diodes based on surface mode emission," Appl. Phys. Lett. 63 (9), 30 August 1993, pages 1164-1166
WSL	AR	A. Köck et al., "Strongly directional emission from AlGaAs/GaAs light-emitting diodes," Appl. Phys. Lett. 57 (22), 26 November 1990, pages 2327-2329
	AS	
	AT	

Examiner Signature 	Date Considered 10/5/05
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



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		Filing Date December 12, 2003	Group Art Unit 2811

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
WSL	AA	5,126,231	June 30, 1992	Levy			
	AB	6,778,746	August 17, 2004	Charlton, et al.			
	AC	6,742,907	June 1, 2004	Funamoto, et al.			
	AD	2004/0110856	June 10, 2004	Young, Jung Gun et al.			
	AE	2004/0144985	July 29, 2004	Zhang, Zhibo, et al.			
	AF	2004/0207310	October 21, 2004	Erchak et al.			
	AG	2004/0207319	October 21, 2004	Erchak et al.			
	AH	2004/0207323	October 21, 2004	Erchak et al.			
	AI	2004-0206962	October 21, 2004	Erchak et al.			
	AJ	2004-0206971	October 21, 2004	Erchak et al.			
	AK	2004-0207320	October 21, 2004	Erchak			
	AL	2004-0259279	December 23, 2004	Erchak et al.			
	AM	2004-0259285	December 23, 2004	Erchak et al.			
	AN	2005/0051785	March 10, 2005	Erchak et al.			
	AO	2005/0051787	March 10, 2005	Erchak et al.			
	AP	2005/0087757	April 28, 2005	Erchak et al.			
	AQ	2005-0040424	February 24, 2005	Erchak et al.			
	AR	2005-0059178	March 17, 2005	Erchak et al.			
	AS	2005-0059179	March 17, 2005	Erchak et al.			
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	AU	3,293,513	August 8, 1962	J.R. Biard et al.			
	AV	3,922,706	November 25, 1975	Kaiser			
	AW	4,864,370	September 5, 1989	Gaw et al.			
	AX	5,126,231	June 30, 1992	Levy			
	AY	6,071,795	06/06/00	Cheung et al.			
✓	AZ	6,778,746	August 17, 2004	Charlton, et al.			

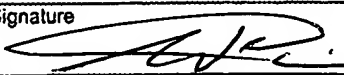
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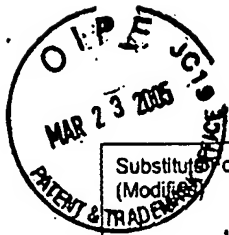
Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16459-013001	Application No. 10/735,498
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Alexei A. Erchak	
		Filing Date December 12, 2003	Group Art Unit 2811

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
U4	AAA	6,849,558	February 1, 2005	Schaper			
↓	ABB	6,307,218	October 23, 2001	Steigerwald et al.			
↓	ACC	5,600,483	February, 1997	Fan et al.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
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	AFF							
	AGG							
	AHH							

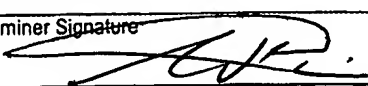
Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AII	
	AJJ	
	AKK	
	ALL	

Examiner Signature 	Date Considered 10/15/05
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	Applicant Alexei A. Erchak			
	Filing Date December 12, 2003		Group Art Unit 2811	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
WSL	AA	6,831,302	12/14/04	Erchack et al.			
	AB	6,504,180	1/7/03	Heremans, et al.			
	AC	6,690,268	2/10/04	Schofield, et al.			
	AD	6,642,618	11/4/03	Yagi, et al.			
	AE	6,784,027	8/31/04	Streubel, et al.			
	AF	6,847,057	1/25/05	Gardner, et al.			
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	AH	6,122,103	9/19/00	Perkins, et al.			
	AI	6,288,840	9/11/01	Perkins, et al.			
	AJ	6,574,383	6/3/03	Erchak, et al.			
	AK	6,504,180	1/7/03	Heremans, et al.			
	AL	6,690,268	2/10/04	Schofield, et al.			
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	AN	6,828,597	12/07/04	Wegleiter, et al.			
	AO	5,814,839	9/29/98	Hosoba			
	AP	5,491,350	2/13/96	Unno, et al.			
	AQ	6,303,405	10/16/01	Yoshida, et al.			
	AR	2002/0110172	8/15/02	Hasnain, Ghulam, et al.			
	AS	6,222,207	4/24/01	Carter-Coman, et al.			
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	AX	6,762,069	7/13/04	Huang, et al.			
	AY	6,649,437	11/18/03	Yang, et al.			
	AZ	6,740,906	5/25/04	Slater, Jr., et al.			
✓	AAA	6,791,119	9/14/04	Slater, Jr., et al.			

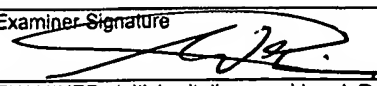
Examiner Signature 	Date Considered 10/5/05
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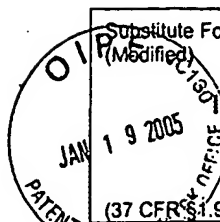
Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16459-013001	Application No. 10/735,498
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Alexei A. Erchak	
		Filing Date December 12, 2003	Group Art Unit 2811

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
USL	ABB	6,794,684	9/21/04	Slater, Jr., et al.			
↓	ACC	6,825,502	11/30/04	Okazaki, et al.			
↓	ADD	2004-0182914	9/23/04	Venugopalan, Hari S.			
↓	AEE	2005-0019971	1/27/05	Slater, David B. Jr.			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
USL	AFF	02/071450 A2		WO				
	AGG							
	AHH							
	AII							
	AJJ							

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
USL	AKK	Wendt et al. "Nanofabrication of photonic lattice structures in GaAs/AlGaAs," J. Vac. Sci. Technol. B 11 (6), Nov/Dec 1993, pages 2637-2640
USL	ALL	Gourley et al. "Optical properties of two-dimensional photonic lattices fabricated as honeycomb nanostructures in compound semiconductors," Appl. Phys. Lett. 64 (6), 7 February 1994, pages 687-689
	AMM	
	ANN	

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	Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 16459-013001		Application No. 10/735,498	
	Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))						Applicant Alexei A. Erchak	
							Filing Date December 12, 2003	

U.S. Patent Documents

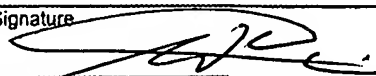
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
WBL	AA	5,834,331	November 10, 1998	Razeghi			
↓	AB	6,426,515	July 30, 2002	Ishikawa			
↓	AC	2003/0222263	December 4, 2003	Choi			
↓	AD	6,091,085	July 18, 2000	Lester			
	AE						
	AF						
	AG						
	AH						
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	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
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Other Documents (include Author, Title, Date, and Place of Publication)

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	AS	
	AT	

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Attorney's Docket No.: 16459-013001



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Alexei A. Erchak
 Serial No. : 10/735,498
 Filed : December 12, 2003
 Title : LIGHT EMITTING SYSTEMS

Art Unit : 2811
 Examiner : Unknown

Mail Stop Amendment


Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants submit the references listed on the attached form PTO-1449. Applicants also bring to the Examiner's attention the below listed 14 pending U.S. utility patent applications that are owned by the Assignee of the above-noted patent application.

W6L

Document Number	Patentee	Filing Date
10/724,004	Alexei A. Erchak et al	11/26/03
10/723,987	Alexei A. Erchak	11/26/03
10/724,033	Alexei A. Erchak	11/26/03
10/724,006	Alexei A. Erchak	11/26/03
10/724,029	Alexei A. Erchak	11/26/03
10/724,015	Alexei A. Erchak	11/26/03
10/724,005	Alexei A. Erchak	11/26/03
10/794,244	Alexei A. Erchak	3/5/04
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10/872,335	Alexei A. Erchak et al.	6/18/04
10/896,606	Alexei A. Erchak et al.	7/22/04
10/871,877	Alexei A. Erchak et al	6/18/04
10/872,336	Alexei A. Erchak et al.	6/18/04
10/896,435	Alexei A. Erchak et al.	7/22/04

 10/5/05

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16459-013001	Application No. 10/735,498
Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Alexei A. Erchak	
		Filing Date December 12, 2003	Group Art Unit 2811

(37 CFR §1.98(b))

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>WSL</i>	AA	5,359,345	10/25/94	Hunter et al.			
	AB	5,631,190	05/20/97	Negley et al.			
	AC	5,724,062	03/03/98	Hunter et al.			
	AD	5,799,924	07/14/98	Krames et al.			
	AE	5,955,749	09/21/99	Joannopoulos et al.			
	AF	6,071,795	06/06/00	Cheung et al.			
	AG	6,420,242	07/16/02	Cheung et al.			
	AH	6,559,075	05/06/03	Kelly et al.			
	AI	6,410,942	06/25/02	Thibeault et al.			
	AJ	6,657,236	12/02/03	Thibeault et al.			
	AK	2003/0141507	07/31/03	Krames et al.			
	AL	5,633,527	05/27/1997	Lear			02/06/95
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	AN	5,073,041	12/17/1991	Rastani			11/13/90
	AO	5,426,657	06/20/1995	Vakhsoori			05/27/94
	AP	6,091,085	07/18/00	Lester			02/19/98
	AQ	6,469,324	10/22/02	Wang, Tien Yang			
	AR	6,287,882	09/11/01	Chang et al.			
	AS	5,793,062	08/11/98	Kish et al.			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
<i>WSL</i>	AT	WO 98/14986	04/09/98	PCT				

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
<i>WSL</i>	AU	W.S. Wong et al. "Damage-free separation of GaN thin films from sapphire substrates", Appl. Phys. Lett. 72 (5), February 2, 1998, pages 599-601

Examiner Signature

Date Considered


EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(37 CFR §1.98(b))

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
WSL	AV	M.K. Kelly et al. "Optical process for liftoff of Group III-nitride films", Physica Status Solidi; Rapid Research Note, November 28, 1996, 2 pages.
	AW	A. A. Erchak et al. "Enhanced coupling to vertical radiation using a two-dimensional photonic crystal in a semiconductor light-emitting diode", Appl. Phys. Lett. (78 (5), January 29, 2001, pages 563-565
	AX	P.L. Gourley et al. "Optical properties of two-dimensional photonic lattices fabricated as honeycomb nanostructures in compound semiconductors", Appl. Phys. Lett. 64(6), February 7, 1994, pages 687-689
	AY	P.L. Gourley et al. "Optical Bloch waves in a semiconductor photonic lattice", Appl. Phys. Lett. 60 (22), June 1, 1992, pages 2714-2716
	AZ	J.R. Wendt et al. "Nanofabrication of photonic lattice structures in GaAs/AlGaAs", J.Vac. Sci. Technol. B 11(6), November/December 1993, pages 2637-2640
	AAA	M. Krames et al. "Introduction to the Issue on High-Efficiency Light-Emitting Diodes", IEEE Journal on selected topic in quantum electronics, Vol. 8, No. 2 March/April 2002, pages 185-188
	ABB	K. Streubel et al. "High Brightness AlGaInP Light-Emitting Diodes", IEEE Journal on selected topic in quantum electronics, Vol. 8, No. 2, March/April 2002, pages 321-332
	ACC	M. Okai et al. "Novel method to fabricate corrugation for a $\lambda/4$ -shifted distributed feedback laser using a grating photomask", Appl. Phys. Lett. 55(5), July 31, 1989, pages 415-417
	ADD	T.L. Koch et al. "1.55- μ InGaAsP distributed feedback vapor phase transported buried heterostructure lasers", Appl. Phys. Lett. 47 (1), July 1, 1985, pages 12-14
	AEE	W.T. Tsang et al. "Semiconductor distributed feedback lasers with quantum well or superlattice grating for index or gain-coupled optical feedback", Appl. Phys. Lett. 60 (21), May 25 1992, pages 258-2582
	AFF	M. Zelsmann et al. "Seventy-fold enhancement of light extraction from a defectless photonic crystal made on silicon-on-insulator", Appl. Phys. Lett. 83 (13), September 29, 2003, pages 2542-2544
	AGG	M. Rattier et al. "Omnidirectional and compact guided light extraction from Archimedean photonic lattices", Appl. Phys. Lett. 83 (7), August 18, 2003, pages 1283-1285
	AHH	Y.-J. Lee et al. "A high-extraction-efficiency nanopatterned organic light-emitting diode", Appl. Phys. Lett. 82(21), May 26, 2003, pages 3779-3781
	AII	I. Schnitzer et al. "30% external quantum efficiency from surface textured, thin-film light-emitting diodes", Appl. Phys. Lett. 63 (18), October 18, 1993, pages 2174-2176
	AJJ	M. Boroditsky et al. "Light extraction from optically pumped light-emitting diode by thin-slab photonic crystals", Appl. Phys. Lett. 75 (8), August 23, 1999, pages 1036-1038
	AKK	L. Chen et al. "Fabrication of 50-100 nm Patterned InGaN Blue Light Emitting Heterostructures", Phys. Stat. Sol. (a), 188 (1), 2001, pages 135-138.
	ALL	I. Bulu et al. "Highly directive radiation from sources embedded inside photonic crystals", Appl. Phys. Lett. 83 (16), October 20, 2003, pages 3263-3265
	AMM	T. N. Oder et al. "III-nitride photonic crystals", Appl. Phys. Lett. 83 (6), August 11, 2003, pages 1231-1233
✓	ANN	M.K. Kelly et al. "Optical patterning of GaN films", Appl. Phys. Lett 68 (12), September 16, 1996, pages 1749-1751

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